

AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 15, as follows. A complete listing of pending claims is provided below.

1. (Currently Amended) A vaso-occlusive device, comprising:
a member having a length, at least a portion of the length having a planar serpentine shape when the member is in a relaxed condition, wherein at least a portion of the serpentine shape comprises a curvilinear segment having a non-uniform curvature.
2. (Original) The vaso-occlusive device of claim 1, wherein the member comprises a coil.
3. (Original) The vaso-occlusive device of claim 1, wherein substantially all of the length of the member has a serpentine shape when the member is in a relaxed condition.
4. (Original) The vaso-occlusive device of claim 1, wherein a distal portion of the member has a serpentine shape when the member is in a relaxed condition.
5. (Original) The vaso-occlusive device of claim 1, the member having a proximal portion, a middle portion and a distal portion, wherein the proximal portion and the distal portion have a serpentine shape, and the middle portion is a linear shape, respectively, when the member is in a relaxed condition.

6. (Original) The vaso-occlusive device of claim 1, wherein a proximal end of the member is electrolytically detachable from a delivery device.
7. (Original) The vaso-occlusive device of claim 1, wherein the serpentine shape comprises an amplitude of about 5-30 millimeters.
8. (Original) The vaso-occlusive device of claim 1, wherein the member, when tensioned in a stretched condition, has a length at least 15 times an amplitude of the serpentine shape.
9. (Original) The vaso-occlusive device of claim 1, wherein the member has a distal end having a substantially J-shaped tip.
10. (Original) The vaso-occlusive device of claim 1, further comprising a plurality of fibers fixedly attached to the member.
11. (Original) The vaso-occlusive device of claim 1, further comprising a polymeric fiber substantially covering the member.
12. (Original) The vaso-occlusive device of claim 11, wherein the polymeric fiber is wrapped around and onto a circumferential surface of the member.
13. (Original) The vaso-occlusive device of claim 1, wherein the member is stretch-resistant.

14. (Previously Presented) A method of occluding a selected site in a vessel with a vaso-occlusive device having a length, at least a portion of the length having a planar serpentine shape when the member is in a relaxed condition, the method comprising:

accessing the site with a delivery apparatus;

deploying the vaso-occlusive device from the delivery apparatus into the selected site of the vessel in a manner allowing a portion of the vaso-occlusive device to substantially assume its relaxed serpentine shape and form along a surface of the vessel at the site.

15. (Currently Amended) A vaso-occlusive device, comprising:

a member having a length, at least a portion of the length having a serpentine shape and not forming a three-dimensional spiral loop when the member is in a relaxed condition, wherein at least a portion of the serpentine shape comprises a curvilinear segment having a non-uniform curvature.

16. (Previously Presented) The vaso-occlusive device of claim 15, wherein the member comprises a coil.

17. (Previously Presented) The vaso-occlusive device of claim 15, wherein substantially all of the length of the member has a serpentine shape when the member is in a relaxed condition.

18. (Previously Presented) The vaso-occlusive device of claim 15, wherein a distal portion of the member has a serpentine shape when the member is in a relaxed condition.

19. (Previously Presented) The vaso-occlusive device of claim 15, the member having a proximal portion, a middle portion and a distal portion, wherein the proximal portion and the distal portion have a serpentine shape, and the middle portion is a linear shape, respectively, when the member is in a relaxed condition.
20. (Previously Presented) The vaso-occlusive device of claim 15, wherein a proximal end of the member is electrolytically detachable from a delivery device.
21. (Previously Presented) The vaso-occlusive device of claim 15, wherein the serpentine shape comprises an amplitude of about 5-30 millimeters.
22. (Previously Presented) The vaso-occlusive device of claim 15, wherein the member, when tensioned in a stretched condition, has a length at least 15 times an amplitude of the serpentine shape.
23. (Previously Presented) The vaso-occlusive device of claim 15, wherein the member has a distal end having a substantially J-shaped tip.
24. (Previously Presented) The vaso-occlusive device of claim 15, further comprising a plurality of fibers fixedly attached to the member.
25. (Previously Presented) The vaso-occlusive device of claim 15, further comprising a polymeric fiber substantially covering the member.

26. (Previously Presented) The vaso-occlusive device of claim 25, wherein the polymeric fiber is wrapped around and onto a circumferential surface of the member.

27. (Previously Presented) The vaso-occlusive device of claim 15, wherein the member is stretch-resistant.

28. (Previously Presented) A method of occluding a selected site in a vessel with a vaso-occlusive device having a length, at least a portion of the length having a serpentine shape and not forming a spiral loop when the member is in a relaxed condition, the method comprising:

accessing the site with a delivery apparatus;

deploying the vaso-occlusive device from the delivery apparatus into the selected site of the vessel in a manner allowing a portion of the vaso-occlusive device to substantially assume its relaxed serpentine shape and form along a surface of the vessel at the site.